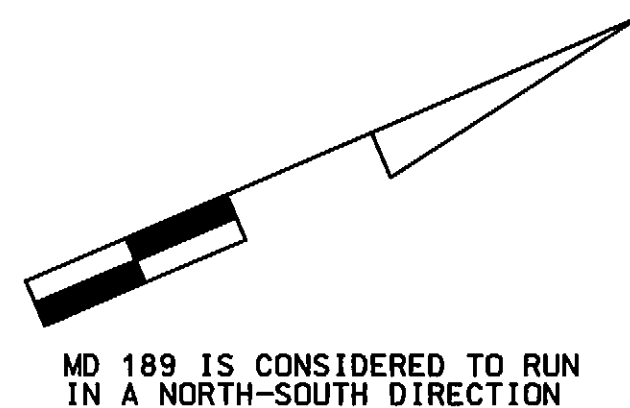
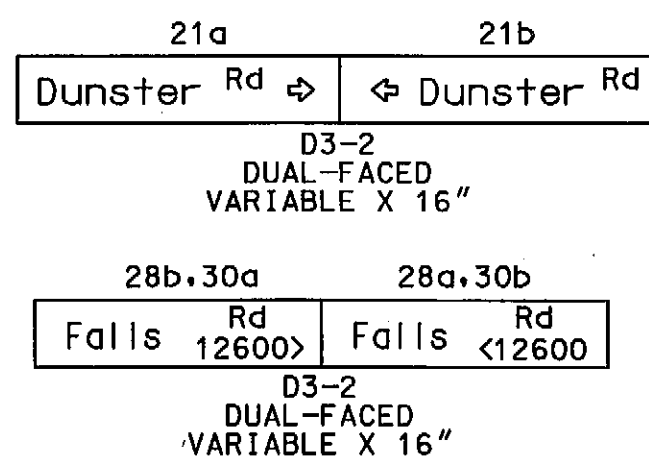
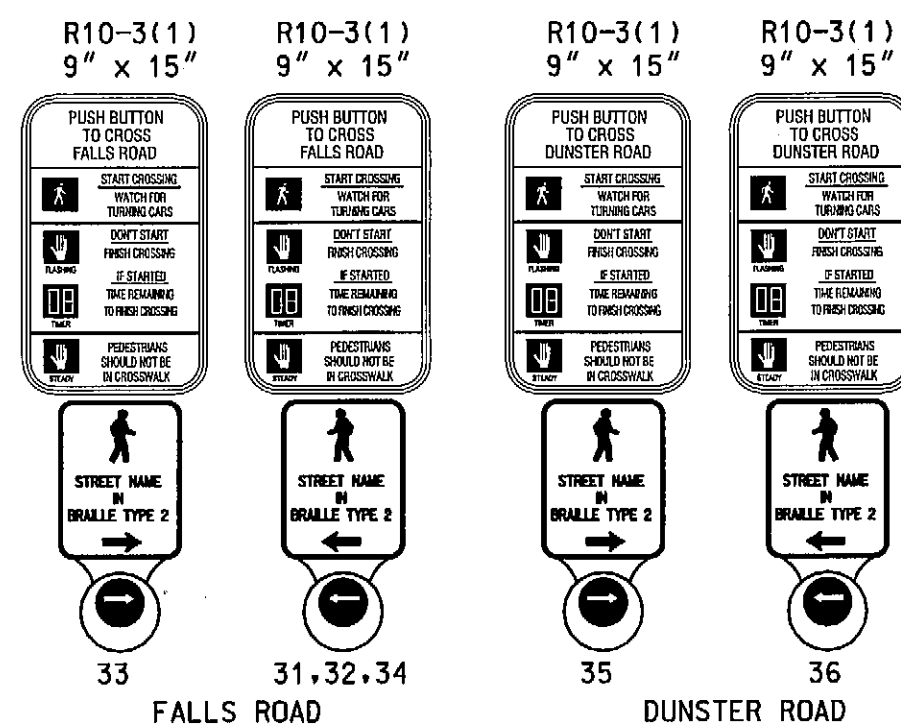


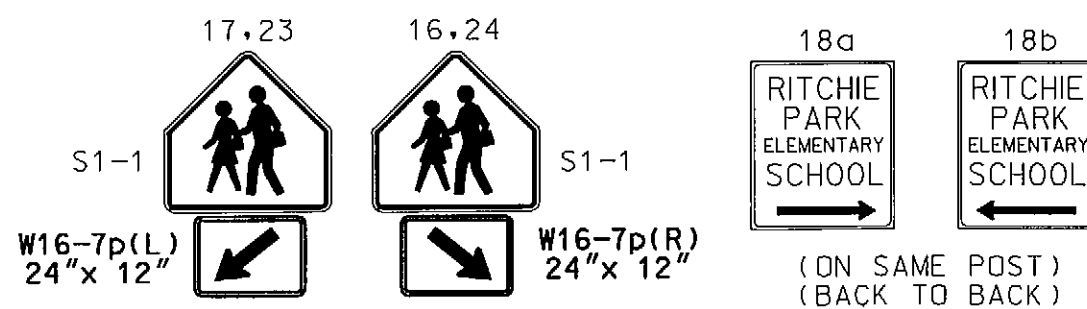
BORDER REV: DATE: June 1, 2004



PROPOSED SIGNS

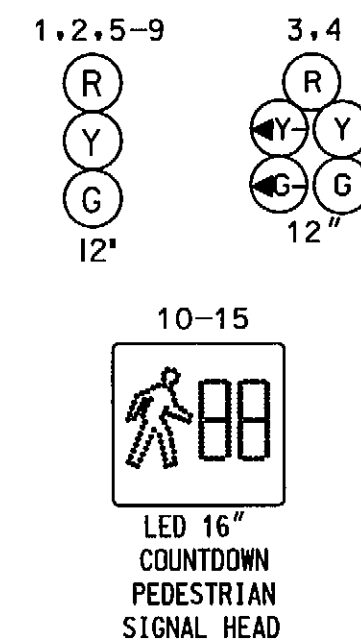


EXISTING SIGNS
(TO BE RELOCATED)

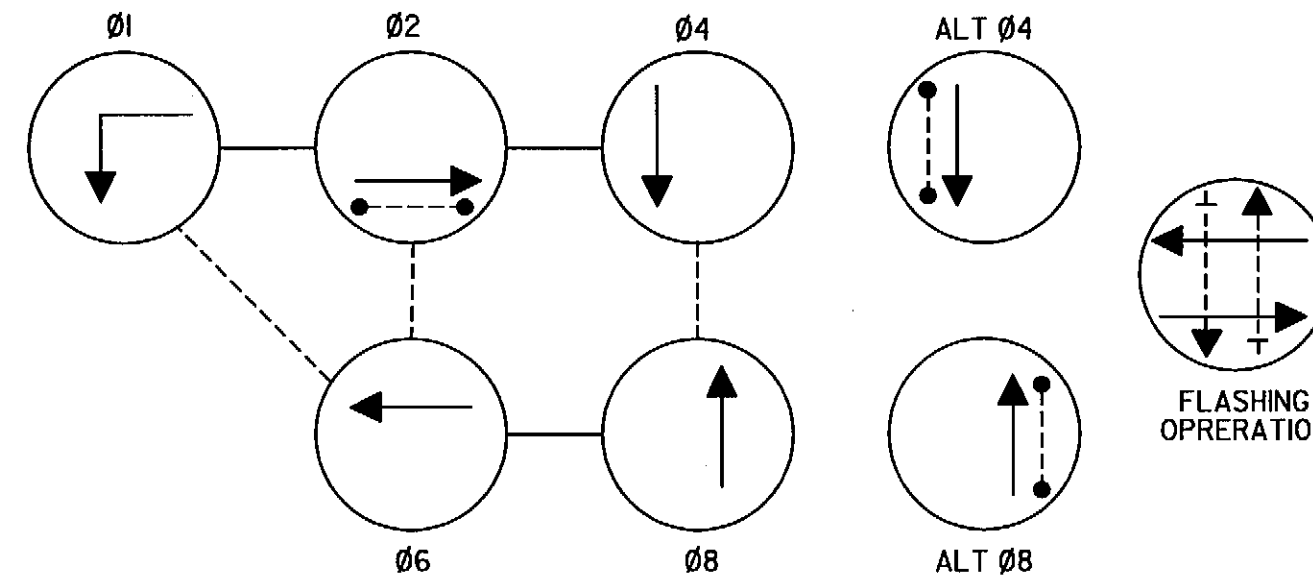


NOTE: THE EXISTING M6-2 SIGNS ARE
TO BE REMOVED AND REPLACED WITH
THE PROPOSED W16-7p SIGNS AS SHOWN

PROPOSED LED SIGNALS



NEMA PHASING

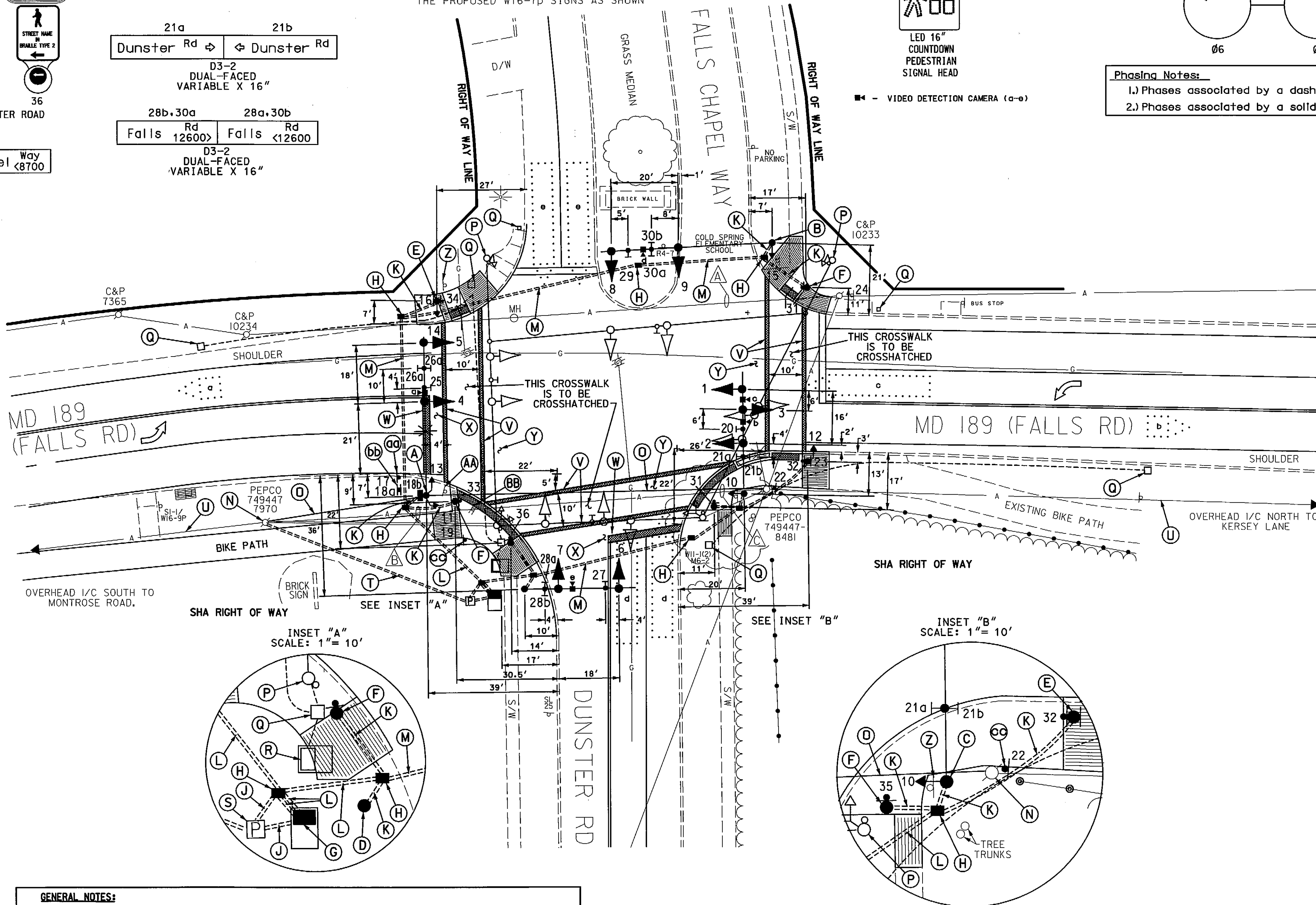


Phasing Notes:

- 1.) Phases associated by a dashed line will operate concurrently.
2.) Phases associated by a solid line will not operate concurrently.

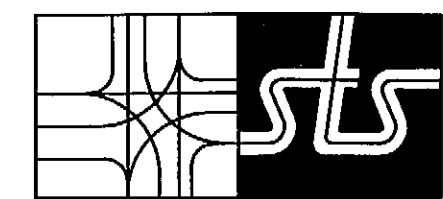
CONSTRUCTION DETAILS

- A. Install 27' steel pole with a special 15' "T" dimension, 50' mast arm, (out to 46') traffic signal heads, pedestrian signal heads, signs and video detection camera, splice cabinet and audible pushbutton with pedestrian education sign, 3' weatherhead and 20' lighting arm with a 250HPSV luminaire. See Detail "N". (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- B. Install 16.5' steel pole with a special 15' "T" dimension, 50' mast arm, traffic signal heads, pedestrian signal head, signs and video detection camera. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- C. Install 16.5' steel pole with a special 15' "T" dimension, 34' mast arm, traffic signal heads, pedestrian signal head, signs and video detection cameras. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- D. Install 16.5' steel pole with a special "T" dimension, 32' mast arm, traffic signal heads, signs and video detection camera. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- E. Install 10' breakaway pedestal pole, Countdown pedestrian signal head, relocated sign and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- F. Install 5' breakaway pedestal pole, audible pushbutton with pedestrian education sign. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
- G. Install NEMA size "6" base-mounted cabinet and controller with video interface and all necessary equipment shown.
- H. Install handhole.
- J. Install 2" polyvinyl chloride electrical conduit (Schedule 40) (trenched).
- K. Install 3" polyvinyl chloride electrical conduit (Schedule 40) (trenched).
- L. Install 4" polyvinyl chloride electrical conduit (Schedule 40) (trenched).
- M. Install 4" polyvinyl chloride electrical conduit (Schedule 40) (bored).
- N. Disconnect existing overhead interconnect cable from existing base mounted cabinet and pull back to the utility pole. Reroute interconnect cable to proposed mast arm pole "C" and into proposed splice cabinet.
- O. Rerouted overhead interconnect cable.
- P. Remove existing strain pole and all attached signal equipment. Cap and abandon existing conduit.
- Q. Remove existing handhole. Cap and abandon existing conduit.
- R. Remove existing base mounted cabinet and controller and foundation 12" below grade. (Note: Controller shall be delivered to the Montgomery County Signal shop).
- S. Install meter pedestal for electrical service.
- T. Install 3" polyvinyl chloride electrical conduit (Schedule 40) (trenched) with 35' of 3 wire 1 conductor (No. 250 KCMIL) and pull string for power service to base of utility pole for proposed underground electrical service by PEPCO.
- U. Existing overhead 12 pair Interconnect cable.
- V. Install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk). 12" diagonal crosshatching is to be installed by the contractor. Not shown on plan for clarity purposes.
- W. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline).
- X. Remove existing "stopline" pavement marking.
- Y. Remove existing "crosswalk" pavement marking.
- Z. Remove existing ground mounted signs and post. Relocate signs to proposed pedestal pole (See Construction Detail "E") as shown.
- aa. Relocate existing ground mounted sign #17.
- bb. Relocate existing ground mounted sign #18.
- cc. Install ground mounted R9-5(mod) sign as shown.



GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All Traffic Signal Foundations shall be installed at the Final Sidewalk or Curb grade for closed sections, Highest Roadway Profile Grade for open sections, to meet clearances as specified in MD 216.03, 918.01, MD 818.02, and MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handtrap ramps or median out throughs.
4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x60" level landing area with a cross slope of less than or equal to 2%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. Location of Accessible Pedestrian signal pushbuttons must meet location requirements of MUTCD Sec. 4E.09 and Fig. 4E.2 and the NCHRP publication, Accessible Pedestrian signals: Guide to Best Practice. If not met, the Contractor is to stop work on pushbutton locations until a design waiver is obtained, approved by the Director, Office of Traffic and Safety.
8. The contractor shall remove all unused wiring.



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APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISONS		II-30-09	
D	REBUILD SIGNAL DUE TO NEW BIKE PATH SHA NO. 8W9396M82		
RRZ	6/1/01	RIE/STW	2-07
C	Install pedestrian signal heads on north side of bridge		
SHA	NO. 21X1065285		
JH			
B			2-4-9
Aesult+			
SHA	NO. MO 5715176		
RRZ			

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PLOTTED: $DATETIME$
FILE: $FILE$

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TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE _____ CONTRACT NO. _____

DESIGNED BY _____ COUNTY MONTGOMERY

DRAWN BY [Signature] LOGMILE 15018905.8

CHECKED BY ET/09 TMS NO. 1807

F.A.P. NO. _____ TOD NO. _____

TS NO. 3879D	DRAWING NO. 1 OF 2	SHEET NO.
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[illegible]